

For each problem, complete the equation. Then solve it.

- 1 April invited 35 guests to a party. So far, 9 guests have said “yes” and 7 guests have said “no.” How many guests (g) still need to reply?

$$9 + 7 + g = 35$$

$$g = \underline{\hspace{2cm}}$$

 guests still need to reply.

- 2 Claire took 12 photos at the beach. Then Sophie used Claire’s camera to take 5 more photos. Claire printed 3 of her favorite photos to frame. How many photos (p) were not printed?

$$(12 + 5) - 3 = p$$

$$p = \underline{\hspace{2cm}}$$

 photos were not printed.

- 3 Pat bakes 15 rolls. He eats one roll. Then he places an equal number of rolls on 2 plates. How many rolls (r) did Pat put on each plate?

$$(\underline{\hspace{2cm}} - 1) \div \underline{\hspace{2cm}} = r$$

$$r = \underline{\hspace{2cm}}$$

Pat put rolls on each plate.

- 4 Ella has to mail 4 letters to her family and friends in Italy. She needs 3 stamps for each letter. She has 3 stamps. How many more stamps (s) does she need?

$$(\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}) - \underline{\hspace{2cm}} = s$$

$$s = \underline{\hspace{2cm}}$$

Ella needs more stamps.



Tell how you know your answer is reasonable.

For each problem, write an equation. Then solve it.

- ① The pet store has 5 fish tanks. Each tank has 7 goldfish and 5 catfish. What is the total number of fish in the tanks?

$$\underline{\hspace{2cm}} \times (\underline{\hspace{2cm}} + \underline{\hspace{2cm}}) = f$$

$$f = \underline{\hspace{2cm}}$$

There are _____ fish.

- ② The florist has 4 buckets of yellow roses and 5 buckets of red roses. Each bucket has 9 roses. What is the total number of red and yellow roses?

$$(\underline{\hspace{2cm}} + \underline{\hspace{2cm}}) \times \underline{\hspace{2cm}} = r$$

$$r = \underline{\hspace{2cm}}$$

There are _____ roses.

- ③ The baker made 3 trays of apple tarts and 4 trays of raspberry tarts. Each tray had 8 tarts. He sells 37 tarts. How many tarts does he have left?

$$(\underline{\hspace{2cm}} + \underline{\hspace{2cm}}) \times \underline{\hspace{2cm}} - 37 = n$$

$$n = \underline{\hspace{2cm}}$$

_____ tarts are left.

- ④ Jack was the star of the basketball game. He made 4 three-pointers! He also made 3 two-point shots. How many points did Jack score in the game?

$$(\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}) + (\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}) = n$$

$$n = \underline{\hspace{2cm}}$$

_____ points

- ⑤ Grandpa has 35 dimes. He saves 3 for the parking meter. Then he splits the rest evenly between the 4 grandchildren. How many dimes does each grandchild get?

$$d = \underline{\hspace{2cm}}$$

Each grandchild gets _____ dimes.

- ⑥ A farmer has 4 times as many sheep as she has goats. She has 6 goats. How many animals (a) is that in all?

$$a = \underline{\hspace{2cm}}$$

_____ animals in all



Tell how you solved the problem.

For each problem, complete the equation. Then solve it.

- 1 Ashley picked 14 red apples and 8 green apples. She gave half of the apples to Sam. How many apples did Sam get?
- _____
- 2 Liam is having a pizza party. He has 3 pizzas with toppings and twice as many plain pizzas. Each pizza has 8 slices. How many more plain slices does he have than slices with toppings?
- _____
- 3 Steve collected 27 pieces of firewood. He put 3 pieces in the fireplace and then made 6 equal piles. How many pieces of firewood (w) were in each pile?
- _____
- 4 There were 11 dog treats in the open box. The new box contains 16 treats. If all 3 dogs get an equal number of treats (t), how many treats will each dog get?
- _____
- 5 Isabella has 42 photos of her family. She has half as many photos of her friends. The photo album holds 4 photos on each page. How many pages (p) will Isabella need for all of her photos combined?
- _____
- 6 Miguel sold 3 houses in March and 2 houses in April. In May, he sold twice as many houses as he sold in March. What is the total number of houses Miguel sold in March, April, and May?
- _____



Write an explanation of how you solved the second problem.

For each problem, write an equation. Then solve it. Show your work.

- ① A museum has 42 dinosaur bones. 18 bones are on display. The rest of the bones are stored in 4 boxes. Each box has the same number of bones. How many bones (b) are in each box?
- _____
- ② A store has a sale bin with 14 toy cars in it. There are 7 race cars and 2 jeeps in the bin. The rest of the cars are vans. How many toy vans (v) are in the bin?
- _____
- ③ The piggy bank has 21 quarters, 16 dimes, and 13 nickels. There are 3 times as many pennies as the rest of the coins combined. How many pennies (p) are in the piggy bank?
- _____
- ④ The bag has 68 pretzels. Ms. Mirabella eats 3 pretzels. Then she gives 3 pretzels to each of her 21 students. How many pretzels does she have left over?
- _____

Circle the letter for the correct answer.

- ⑤ The librarian bought 7 new bookshelves. He has 34 new nonfiction books, and 47 older nonfiction books. If he places the same number of books on each shelf, how many books will he have on each shelf?
- a) 9 books on each shelf with 4 extra
b) 10 books with 5 left over
c) 11 books on each shelf
d) 11 books on each shelf with 4 left over
- ⑥ Dr. Kim sees 8 patients per day on Monday through Friday. He also sees 4 patients on Saturday. If he is closed on Sunday, how many patients does Dr. Kim see per week?
- a) 20
b) 24
c) 40
d) 44